

FIGURE 1

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*      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
MATTQSCQSRSSACSKAAACFPAAVAVDEEHGHSHQLKGGAQEEAENDNNKPELRRGPW
M-----RKGWP
MGRPPCC-----DKVGVKKGPW
MDK-----KQLCNTSQD-PEVRKGPW
MDK-----K-LGNTSHD-PEVRKGPW
MDK-----KPCDSS-HD-PEVRKGPW
MDK-----KQCKTSQD-PEVRKGPW
MST-----IAKRDLSSEEESELRRGPW
M-----DGKGAR---SSNTLLSSEDEM-----DLRRGPW
M-----DEKGAR---SSNTLLSCEDEM-----DLRRGPW
MST-----SKSVSSSSEDDNELRRGPW
MST-----SKSVSSSSEDDNELRRGPW
MGRPPCC-----DKEGVKKGPW
MDK-----KPC-NSSQD-PEVRKGPW
1
60

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SEQ ID NO:10
 SEQ ID NO:14
 SEQ ID NO:26
 SEQ ID NO:30
 SEQ ID NO:32
 SEQ ID NO:34
 SEQ ID NO:36
 SEQ ID NO:42
 SEQ ID NO:44
 SEQ ID NO:46
 SEQ ID NO:48
 SEQ ID NO:50
 SEQ ID NO:54
 SEQ ID NO:63

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**      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
TVDEDLTLVNYIADNGEGRWNNLARAAGLK---RTGKSCRLRWLNLYLRPDVKRGNFSADE
TEQEDVQLVWFVRLLGERRWDFLAKVSG---LQSGKSCRLRWVNYLHPGLKGRMSPEE
TPEEDMLVSYIQEHGAGNWRAPVPTNTGLM---RCSKSCRLRWNTNLYLRPGIKRGNFTEQE
TMEEDLILINYIANHGEVWNSLAKAAGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE
TMEEDLILITYIANHGEVWNSLAKAAGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE
IMEEDLILINYIANHGEVWNSLAKASGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE
TMEEDLILMNYIANHGEVWNSLAKAAGLK---RNGKSCRLRWLNLYLRPDVRRGNITPEE
TLEEDSLLIHYIARHGEGRWNMLAKSAGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE
TVDEDLTLINYVATHGEGRWNTLALSAGLK---RTGKSCRLRWLNLYLRPDVRRGNITLEE
TVDEDLTLINYIATHGEGRWNTLALSAGLK---RTGKSCRLRWLNLYLRPDVRRGNITLEE
TLEEDNLLSQYIFNHGEGRWNLLAKRSGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE

```

SEQ ID NO:10
 SEQ ID NO:14
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 SEQ ID NO:30
 SEQ ID NO:32
 SEQ ID NO:34
 SEQ ID NO:36
 SEQ ID NO:42
 SEQ ID NO:44
 SEQ ID NO:46
 SEQ ID NO:48

FIGURE 1 CONTINUED

SEQ ID NO:50	TLEEDNLLSQYISSHGEGRWNLAKRSLK---RTGKSCRLRWLNLYLKPDKVGRGNLTPOE	61
SEQ ID NO:54	TPEEDIILVSYIQEHGPGNWRAPAKTGLS---RCSKSCRLRWLNLYLPGIKRGNFTEQE	120
SEQ ID NO:63	TMEEDLILINYIANHGEVWNSLAKAAGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE	
		121
	* * * * *	
	* * * * *	
	* * * * *	
	* * * * *	
	* * * * *	
SEQ ID NO:10	QLLILDLHTRWGNRWSKIAQHLPGRTDNEIKNYWTRVQKHAKQLNCNCDANSKRFKDA---	
SEQ ID NO:14	ERMVVQLHAKLGNRWSRIAKSIPGRTDNEIKNYWRTHLRK---LKLQKQKQSQDD---	
SEQ ID NO:26	EKLIVHLQALLGNRWAAIASYLPERTDNDIKNYWNTHLKKLKKMQAAGGEDSGAASEG	
SEQ ID NO:30	QLLIMELHAKWGNRWSKIAKHLPGRTDNEIKNYWTRIQKHIKQAE-N-FQQQISN----	
SEQ ID NO:32	QLLIMELHAKWGNRWSKIAKHLPGRTDNEIKNYWTRIQHHLKQAS-SSFQQQSSN----	
SEQ ID NO:34	QLLIIELHAKWGNRWSKIAKHLPGRTDNEIKNEFWTRIQKHIKQAE-TSQQHGNSS----	
SEQ ID NO:36	QLLIMELHAKWGNRWSKIAKHLPGRTDNEIKNYWTRIQKHIKQAE-N-FQQQSSN----	
SEQ ID NO:42	QLLILELHAKWGNRWSKIAQHLPGRTDNEIKNYWTRIQKQARQLNIESGSKRFIDA---	
SEQ ID NO:44	QLLILELHAKWGNRWSKIAQHLPGRTDNEIKNYWTRVQKHAKQLKCDVNSKQFKDT----	
SEQ ID NO:46	QLLILELHAKWGNRWSKIAQHLPGRTDNEIKNYWTRVQKHAKQLKCDVNSKQFKDT----	
SEQ ID NO:48	QLLILELHAKWGNRWSKIAQHLPGRTDNEIKNYWTRIQKQARHLKIYTDSTREFQEL----	
SEQ ID NO:50	QLLILELHAKWGNRWSKIAQHLPGRTDNEIKNYWTRIQKQARHLKIDTDTREFQEL----	
SEQ ID NO:54	EKMIIHLQDILLGNRWAAIASYLPQRTDNDIKNYWNTHLRKKLKKMQAGGEG-----	
SEQ ID NO:63	QLLIMELHAKWGNRWSKIAKHLPGRTDNEIKNEFWTRIQKHIKQVD--NPNQQNFQOK---	180
		121
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	* * *	
	* * *	
	* * *	
	* * *	
	* * *	
SEQ ID NO:10	-----MRYLWMPHLADDVDTIAAANDDD-EDHHNLRLLVLHHHQAQ	
SEQ ID NO:14	-----HH-----NDNDDDDDRNSS-SSSSSSNSNSNLQQQPQ-	
SEQ ID NO:26	GGRGDGDGGGKSVKAAAPKGQWERRLQTDIHTARQALRDALS-----LDHPDPSPAT	
SEQ ID NO:30	-----NSEINDHQAS---TSHVSTMAEPMETYSPPF	
SEQ ID NO:32	-----SEIIYHPQAC---TSQVSTMAQPIETYSPPS	
SEQ ID NO:34	-----ENSNDHQASNS-TSKVSTMAHPNETFSSPS	

FIGURE 1 CONTINUED

SEQ ID NO:36	-----NSEINDHQAS---TSHVSTMAEPMEMYSPPC	181
SEQ ID NO:42	-----XKCFWMPRLLOK--MEQSNP---SPHHSSM-----TNMM	
SEQ ID NO:44	-----MRYIWMPLRVE-----RI-QATAAASAPQPVTVPPRP	
SEQ ID NO:46	-----MXYLXXXKARG-THSSSGDGPRN-HHRNCGRHQQCIHLRXQP	
SEQ ID NO:48	-----VRRFWMPRLLOK--AKESSSNM-SIQNQAI PMPFDYVSQHL	
SEQ ID NO:50	-----VRRFWMPRCFKK--PKNH-----LLQPCQFKTRQL	
SEQ ID NO:54	-GSFGEFSASRQI-----PRQWERRLQTDIQMAKRALSEALSPKKPSCLSASNSNPSPD	
SEQ ID NO:63	-----MS-----LEINDHHHHHPHOPS-SSQVSNLVEPMEITYSPTS	240

SEQ ID NO:10	HLQQAAAAGGAANDLAAGAYDVRQL---HALPSSGMAATSSDSSLASESYDDGGLLFAN	
SEQ ID NO:14	-----PEDE-----SSASGSLQAQHEDQHQLFLH-PLWNDDIIVDVCWSSSTNVVA	
SEQ ID NO:26	AAAAATPAGSSAA-----YASSADNIARLLQGWMR--PGGGGGGNGKGPEA-----SGSTST	
SEQ ID NO:30	YQGML-----EPFSS-----	
SEQ ID NO:32	YQGML-----DPFS-----	
SEQ ID NO:34	YQATF-----EPFQP-----	
SEQ ID NO:36	YQGML-----EPFST-----	
SEQ ID NO:42	NLGNSG---EASMSSMSSFNINPSMSSSSPPKGNLLWM-----MP-----NHF-	
SEQ ID NO:44	-----TMHTPTEAT	
SEQ ID NO:46	YTTKFEVLNHKGRMGLTDPVANNDFVGSHTVQRYPTPENSSSTGASSDSFGTQVSTISD	
SEQ ID NO:48	TVGTIPPWQGPCMNEAGPTYMDQHEQTQTRNTNNGSCISLSESANIPKVP-----QHFG	
SEQ ID NO:50	L-----CLLMV---FLS-----IQL-----	
SEQ ID NO:54	SSSSFSSTKPTTTQSVCYASSADNIARMLKGWMKNPPKSSRTNSSMTQNSFNLAGADTA	
SEQ ID NO:63	YQGTI-----EPF-P-----	241

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FIGURE 1 CONTINUED

SEQ ID NO:10	LRAGEMLMDGGDWAAQQEADQGL-----WPPPPPPPSDLDQSVVQAAAGAGAGQFQ----	D
SEQ ID NO:14	PP-----PM-----PAS----	
SEQ ID NO:26	TATTQQQPQCSGEGAASA-----SASASQSGAAAAATAQT-----PECS	
SEQ ID NO:30	-----IQFP-----T	
SEQ ID NO:32	-----IQFP-----T	
SEQ ID NO:34	-----QFL-----Q	
SEQ ID NO:36	-----QFP-----T	
SEQ ID NO:42	----KYYVQ----PHQSIPRF-----LPIFTAT-----	
SEQ ID NO:44	L-----ITTNSRFTITRA-----	
SEQ ID NO:46	LTENSSVPENTNSADY--YQPSQISNY---SDNCITSPSGFLFPQGLDLQSM-----	
SEQ ID NO:48	HTTITQFHAL-----NTNDFGTFTYEGYN--VNNNVYEMDNFKTTTWWAEDAQYPIGDCQ	
SEQ ID NO:50	---LGPYHHI---HT-----PLG----	
SEQ ID NO:54	CSSGAKGPLSSAELSENNFESL----FDFDQSLESSNSDQFSQSL-----PEAT	
SEQ ID NO:63	-----TQFP-----T	

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FIGURE 1 CONTINUED

SEQ ID NO:10	MELSGWV-----QGFSEITDNFWALEEIIWKMQ.-----
SEQ ID NO:14	---PLWDID-----DAFFCSDYSLPLWG.-----
SEQ ID NO:26	TETSK---MATGGGAGGPAPAFSMLESWLLDDGGMGLMDVVPLGDPSEFF
SEQ ID NO:30	INPDQ-----SSCCTNDNNNSINYWSMEDIWSMQLLN---GD.-----
SEQ ID NO:32	-NPHH-----SSCCTNDDDDNN-NYWSMEDIWSMQL-A---NY.-----
SEQ ID NO:34	SMINQ-----VVVPATT-----TIGASRISGRLC---NYSMEIN
SEQ ID NO:36	INPDQ-----SSCCTNDNNN-INYWSMEDSWSMQLLN---G-----D
SEQ ID NO:42	-----KWG-----
SEQ ID NO:44	-PNTPNMQSGDSSDN-----FWDVESMLFLEQQL-----MNDNM-
SEQ ID NO:46	MVGSNWV-----NNDFACNMWNMDLWQFSKIQ-----K
SEQ ID NO:50	-----RDLV.-----
SEQ ID NO:54	VLQDE---SKPDINIAAEIMPFSLLEKWLLEAGCQEKLVGCCGDAK-FF
SEQ ID NO:63	INNDH-----HQNSNCCANDNNNN-NYWSMEDIWSMQLLN---G-----D

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